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III. Remarks

The Examiner's careful consideration is appreciated. To more distinctly define

the invention, claim 1 is replaced by claim 7 and claims 2-5 are amended; claims 8-20

are added; claims 1 and 6 are cancelled without prejudice.

The respective paragraphs of the DETAILED ACTION are discussed below.

1. Claims 1-6 were considered.

2-3. To clarify claim 4, "points" is added to characterize the mesh data elements

utilized in an assembly.

4-5. Claims 1-3, 5 and 6 were rejected in view of Faruque et al. under 35 USC

Section 102(e). Claim 1 is replaced by claim 7 and claims 2-5 are amended to clarify

and distinctly point out subject matter sought to be patented. Claim 6 is cancelled. In

independent claim 7, replacing claim 1, a task group associated with a mechanical

assembly accesses parts and weld data from a library; a network links the library to

work stations of task group members; the work stations associate parts and welds and

build an assembly for a virtual simulation in which the characteristics of the assembly

are returned to the library such that the assembly and the characteristics of the

assembly become available for retrieval as a part identified in the library. Faruque et al.

address the quality of mesh models showing a single work station passing on a mesh

model for analysis. The invention of claim 7 is directed to a group with multiple

participants and functionalities - all providing feedback to the library, in assembly

development, mesh refinement, and virtual evaluation of an assembly. The invention,

as claimed, integrates functions of design, functions of design refinement in an

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assembly sequence and functions of testing in a design cycle involving a continuum of

refinement, thus distinguishing over the single station and single function of mesh

evaluation described in Faruque et al. Dependent claims 2, 3 and 5 are similarly

distinguishable wherein the assembly is refined in view of a simulation and the

assembly is updated in the list, the material properties to the meshed parts are

recorded, and the simulation evaluation[s] involve[s] crash impact, durability and/or

noise. Thus, applicant submits that the rejection in view of Faruque et al. under 35 USC

Section 102(e) should be withdrawn.

6-9. Claim 4 was rejected in view of Faruque et al. under 35 USC Section 103. Claim

4 now depends on claim 7 and is distinguishable as is claim 7. As clarified, the number

of stated points meshed in an assembly, as built in the system of new claim 7, is set out

in claim 4. Applicant thus submits that the statement of the invention as a whole in

amended claim 4 is not rendered obvious by Faruque et al.

10. The other prior art of record is noted.

11. Entry of the amendment, reexamination and reconsideration, and allowance of

the application are requested.

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Claims 8-20 are added to define embodiments of the invention. Independent

claim 8 relates to a continuous loop for data assembled and tested in the design

process. Dependent claims 9-12 define, in the loop, examples wherein feedback to the

library results in an assembly for commercial release; tags identify connections between

parts; a beginning to end design process is involved; and noise, crash and durability

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simulations are conducted. In claims 13 and 15, imperfections in the mesh are

identified and fixed, and, modifications made in any stage of the design process are

accessible in the library. New claims 17-18 depend upon independent claim 8. New

claims 19-20 are depend upon independent claim 7. Respectively the dependent

claims define systems in accord with claims 8 and 7 wherein the network links more

than one of a design work station, an assembly work station and a simulation work

station; and each of a design work station, an assembly work station and a simulation

testing work station. The dependent claims 17 and 20 also define a task group

associated with a motor vehicle assembly. Applicant submits that the new claims are

neither described by nor rendered obvious by the cited references.

Should the Examiner have any questions or suggestions in view of the foregoing,

applicant's undersigned attorney requests that the Examiner initiate a telephone call to

the undersigned.

Respectfully submitted,

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Eun H. Chung, Facsimile Number 571-273-8300 [Alternate address: Commissioner for Patents, Mail Stop Amendment, PO Box 1450, Alexandria, Virginia 22313-1450].

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